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**UNITED STATES PATENT & TRADEMARK OFFICE**

Re: Application of: Wolfgang FLEISCHER and Karin REIMER  
Serial No.: To Be Assigned  
Filed: Simultaneously Herewith  
For: **PREPARATIONS FOR THE APPLICATION OF  
ANTI-INFLAMMATORY, ESPECIALLY  
ANTISEPTIC AGENTS AND/OR AGENTS  
PROMOTING THE HEALING OF WOUNDS, TO  
THE LOWER RESPIRATORY TRACT**

**LETTER RE: PRIORITY**

Box: PCT  
Assistant Commissioner for Patents  
Washington, D.C. 20231

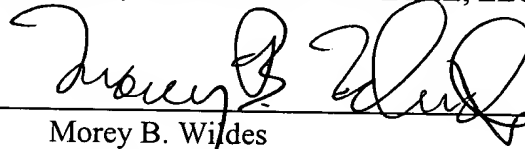
November 27, 2000

Sir:

Applicants hereby claim priority from United States Application No. 60/086,895 filed  
May 27, 1998.

Respectfully submitted,

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**THE UNITED STATES OF AMERICA****TO ALL TO WHOM THESE PRESENTS SHALL COME:  
UNITED STATES DEPARTMENT OF COMMERCE****United States Patent and Trademark Office***EP99/3681*

June 08, 1999

THIS IS TO CERTIFY THAT ANNEXED HERETO IS A TRUE COPY FROM  
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OFFICE OF THOSE PAPERS OF THE BELOW IDENTIFIED PATENT  
APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A  
FILING DATE UNDER 35 USC 111.

APPLICATION NUMBER: 60/086,895

FILING DATE: May 27, 1998

09/701450

**PRIORITY DOCUMENT**  
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By Authority of the  
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*L. Edelen*

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Certifying Officer

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66793 U.S. PTO

05/27/98

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Atty. Docket No.: P62107US0

Sir:

Transmitted herewith for filing is a PROVISIONAL APPLICATION of

Dr. Wolfgang FLEISCHER residing at  
Posener Strasse 6, D-55218 Ingelheim, GERMANY  
-and-

Dr. Karen REIMER residing at  
Im Rehwinkel 12, D-65582 Hambach, GERMANY

for POVIDONE IODINE FOR THE ADMINISTRATION VIA THE UPPER AND  
LOWER RESPIRATORY TRACT. The application comprises a 5-page  
specification, including 5 claims and Abstract.

Accompanying this application for filing is:

X. Filing Fee: Small Entity, \$75.00 X Large Entity, \$150.00

Check No. 37256, in the amount of \$ 150.00, is enclosed to cover  
the Filing Fee. The Commissioner is hereby authorized to charge  
payment of any fees set forth in §§1.16 or 1.17 during the pendency  
of this application, or credit any overpayment, to Deposit Account  
No. 06-1358. A duplicate copy of this sheet is enclosed.

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Respectfully submitted,

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By *William E. Player*  
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jrc

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Povidone iodine for the administration  
via the upper and lower respiratory tract

The invention is concerned with the use of povidone iodine for administration via the upper and/or lower respiratory tract.

Povidone iodine is an antiseptic agent which is known for the topical treatment of infectious maladies. Also antibiotic agents are used for treatment of infectious diseases. A decisive disadvantage of antibiotic agents is that resistances are established, furthermore, antibiotics may sensitize the patients so that they develop allergies against such agents. Polividone iodine or PVP iodine, i. e. poly(1-vinyl-2-pyrrolidone)-iodine complex is an antiseptic agent which does not cause resistances of the infectious agents against that particular compound.

At present, infectious diseases of the respiratory tract are treated with antibiotics. This leads to the complications which are known to the skilled person. For example, patients suffering from chronic bronchitis are often treated with antibiotics in order to alleviate the symptoms. However, this



[illegible]

The present invention is useful in the treatment of infectious diseases or for alleviation of diseases such as HIV infections which are accompanied with opportunistic infections. Also patients having a suppressed immune system, for example, after organ transplants, can be treated according to the invention. In particular, acute and chronic bronchitis, pneumonia, bronchiectasia, cystic fibrosis, diphtheria, tuberculosis can be treated with the povidone iodine preparation according to the invention.

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Claims

1. Use of povidone iodine for the preparation of a pharmaceutical composition for the treatment of diseases which are susceptible to the administration of povidone iodine via the upper and/or lower respiratory tract.
2. Use according to claim 1 wherein the povidone iodine is prepared in form of a liposome preparation, in form of a microsphere preparation and/or in form of a nano particle preparation.
3. Use according to claim 1 and/or 2 wherein the administration of the povidone iodine preparation into the respiratory tract is performed by aerosol nebulization or by dry powder inhalation.
4. Use according to claim 1 for the treatment of infectious diseases or alleviation of diseases such as HIV-infections which are accompanied with opportunistic infections or with a suppressed immune system.
5. Use according to claim 1 for the treatment of acute and chronic bronchitis, pneumonia, bronchiectasia, cystic fibrosis, diphtheria, and/or tuberculosis.



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Abstract

Use of povidone iodine for the preparation of a pharmaceutical composition for the treatment of diseases which are susceptible to the administration of povidone iodine via the upper and/or lower respiratory tract.

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